

Claims

1. Storage element for at least one brake disc (1) comprising at least one housing (13) of longitudinal axis (X2), the housing comprising, at a first longitudinal end, an opening (14) for inserting the said brake disc (1) having an internal diameter (D14) greater than the external diameter (D7) of the brake disc, a wall (16) connecting the first longitudinal end to a second longitudinal end (18), characterized in that the said housing (13) comprises at least one suspension means (15) made in the said wall (16) of the said brake disc so that a non-zero distance separates a first or second face (9, 11) of the brake disc, facing towards the second longitudinal end of the housing (13) and the said second end (18).
2. Storage element for a brake disc according to Claim 1, characterized in that the said suspension means is formed by at least one shoulder (15) connecting a larger-diameter first cylindrical portion (10) of longitudinal axis (X2) of a diameter greater than the diameter (D7) of the brake disc (7) and a smaller-diameter second portion (12) of longitudinal axis (X2), the said shoulder being of width (L) such that the shoulder collaborates with a radially external end (17) of the said first or second face (9, 11) of the brake disc.
3. Element according to Claim 2, characterized in that the shoulder (15) is made of at [sic] two parts (115) arranged in one and the same plane (Q) and formed by angular sectors distributed, advantageously uniformly, over the periphery of the housing (13).

4. Storage element for a brake disc according to Claim 2, characterized in that the housing (13) comprises several shoulders (151, 152) arranged in parallel planes (Q1, Q2) so that the storage element will take brake discs of different diameters.
5
5. Element according to the preceding claim, characterized in that each shoulder (151, 152) connects a larger-diameter part to a smaller-diameter part, the said smaller-diameter part forming the next larger-diameter part, and in that each larger-diameter part has an axial dimension along the axis (X2) at least equal to half the distance separating the first and second faces (9, 11) of the brake disc it accommodates.
10
15
6. Storage element for a brake disc according to the preceding claim, characterized in that the smaller-diameter portion of the previous suspension means along the longitudinal axis (X2) from the first end (14) of the housing (13) towards the second end (18) forms the larger-diameter portion of the next suspension means.
20
25
7. Storage element according to any one of Claims 2 to 6, characterized in that the width of the shoulder (15, 151, 152) is preferably between 4 mm and 10 mm.
30
8. Storage element according to Claim 7, characterized in that the width of the shoulder (15, 151, 152) is more preferably still between 6 mm and 8 mm.
35
9. Storage element for a brake disc according to Claim 1, characterized in that the wall (16) is in the form of a cone frustum with the taper directed

towards the second longitudinal end (18) of the housing.

- 5 10. Element according to any one of the preceding claims, characterized in that the housing (13) has a dimension along the axis (X2) at least equal to the dimension of the brake disc along the axis (X1).
- 10 11. Element according to any one of the preceding claims, characterized in that it is made of a synthetic material by thermoforming.
- 15 12. Element according to the preceding claim, characterized in that it is made of thermoplastic polymer, particularly ABS.
- 20 13. Element according to Claim 11, characterized in that it is made of polyethylene.
- 25 14. Element according to any one of the preceding claims, characterized in that it comprises six housings (13) distributed uniformly and in that it has the shape of a rectangular parallelepiped.
- 30 15. Element according to any one of Claims 1 to 13, characterized in that it comprises twelve housings (13) distributed uniformly and in that it has the shape of a rectangular parallelepiped.
- 35 16. Element according to any one of the preceding claims, characterized in that it comprises means (19) allowing several elements to be stacked one on top of the other.
17. Element according to the preceding claim, characterized in that the said means (19) are grooves extending upwards in the direction of stacking on rims of the storage element.

18. Element according to Claim 16, characterized in that the said means are formed of blocks (23) arranged centrally between several housings, advantageously between four housings, and bearing surfaces (21) projecting from the rims towards the inside of the said element for an element able to be stacked on the said element.
- 5
- 10 19. Element according to the preceding claim, characterized in that the said blocks are formed as an integral part of the housings.
- 15 20. Brake disc storage module, characterized in that it comprises at least two storage elements according to any one of Claims 16 to 19, stacked along the axis (X2).